ANNUAL PLANNING INFORMATION

FOR

STATE OF RHODE ISLAND

MAY 1988

EDWARD D. DI PRETE, GOVERNOR

RHODE ISLAND DEPARTMENT OF EMPLOYMENT SECURITY

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UNITED STATES DEPARTMENT OF LABOR

ANNUAL PLANNING INFORMATION

for

State of Rhode Island

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TABLE OF CONTENTS

	Page
List of Maps and Tables	iii
Preface	iv
Section 1. Description of State	1
A. General Information	1
B. Recent Economic Developments	3
C. Population Trends	3
Section 2. Employment Developments and Outlook by Industry	4
A. Recent Developments	4
B. Industry Outlook	8
Section 3. Employment Developments and Outlook by Occupation	9
A. Recent Developments	9
B. Occupational Outlook for Program Year 1988	14
C. Long-term Occupational Outlook	18
D. Potential Occupational Supply	39
Section 4. Recent Trends in Unemployment	41
Section 5. Characteristics of the Insured Unemployed	44
Appendix	47
Sources of Data	48
Technical Notes and Explanatory Material	49

LIST OF MAPS AND TABLES

	Page
State of Rhode Island - Counties, Cities and Towns	2
Population Change 1970 - 1980 in the United States and Rhode Island	3
Rhode Island Establishment Employment - Calendar Year 1987	6
Rhode Island Establishment Employment - Calendar Year 1986	7
Occupations With Job Openings Unfilled for 30 Days or More During 1987 - Quarterly Range of Openings Unfilled and Quarterly Average Number of Openings Unfilled	12
Occupations With 25 or More Job Openings Unfilled for 30 Days or More at the End of February 1988	16
Average Annual Number of Job Openings by Occupation During 1980-1990 Period for Rhode Island	20
Occupations With 50 or More Active Applicants at the End of February 1988	40
Rhode Island Labor Force and Unemployment, 1987	42
Rhode Island Labor Force and Unemployment, 1986	43
Characteristics of the Insured Unemployed, Annual Average - 1987	45
Characteristics of the Insured Unemployed, Annual Average - 1986	46

PREFACE

This Annual Planning Information (API) Report is designed to provide historical, current, and outlook information for use by employment and training program planners in developing programs and job training plans for the coming program year. The API includes information on and analysis of employment, unemployment, the insured unemployed, and occupational trends and outlook.

Section 1: Description of State

A. General Information

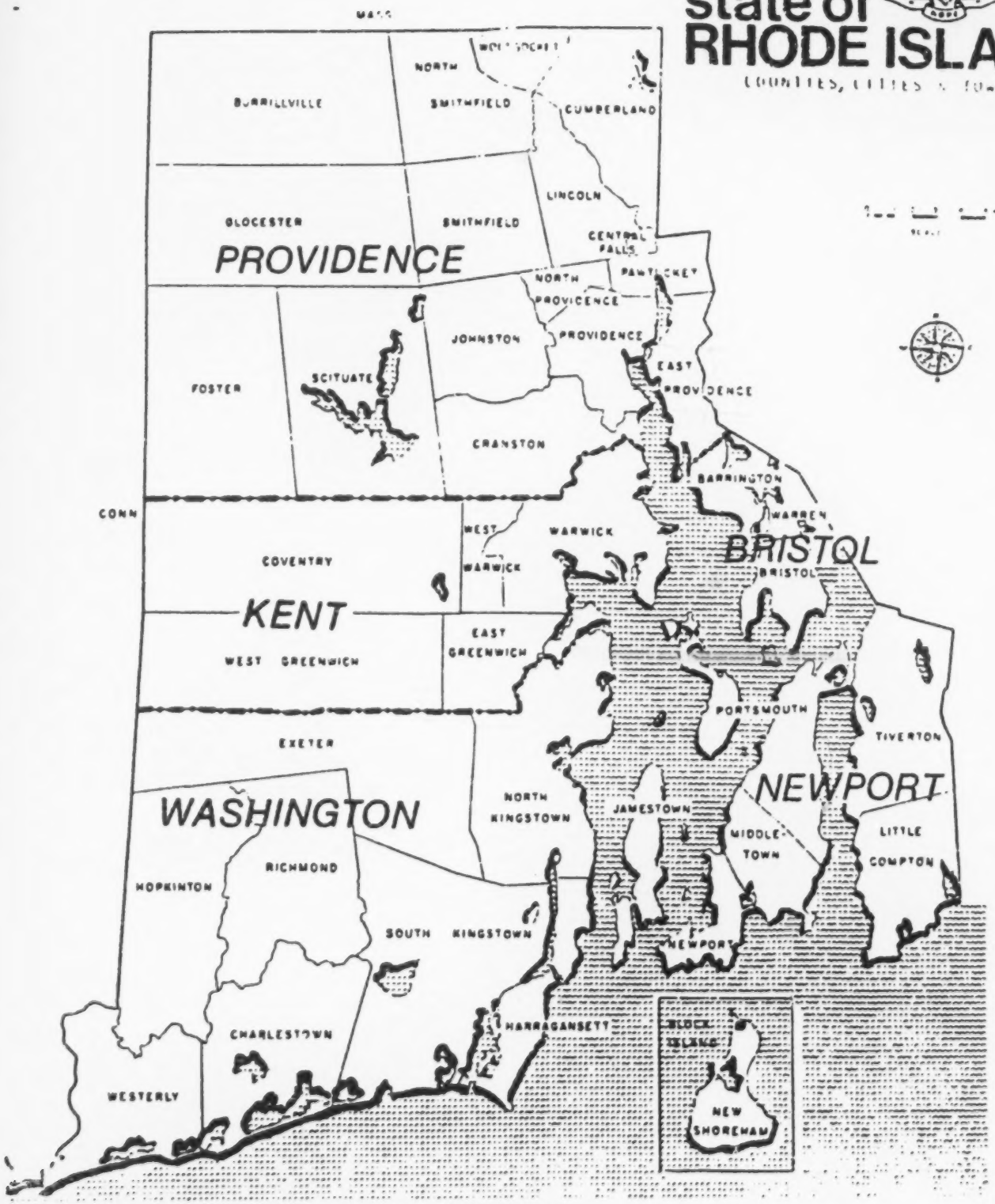
Rhode Island, with a total land area of 1,058 square miles, the smallest for any state, had a population of 947,154 as of April 1, 1980, which made it one of the highest in population density with 895 persons per square mile. Rhode Island, whose physical size is comparable to that of the average U.S. County, has often been called a "City-State".

The State consists of five counties: Bristol, Kent, Newport, Providence and Washington, the largest of these being Providence County, with a 1980 population of 571,349. The State capital is the City of Providence, which had a 1980 population of 156,804. Four other cities in the State had a 1980 population greater than 50,000: Warwick, the State's second largest city, with 87,123; Cranston, with 71,992; Pawtucket, with 71,204 and East Providence, 50,980.

Rhode Island enjoys several distinctions; it is the birthplace of textile manufacturing in the United States, as well as the location of the Newport to Bermuda Yacht Races, and the Tennis Hall of Fame. The port of Providence is an excellent deep water port, with immediate access to air and rail facilities. Vastly improved highways make the State pivotal to the Northeast and to the Mid-Atlantic States.

state of RHODE ISLAND

COUNTIES, CITIES & TOWNS



RHODE ISLAND DEPARTMENT OF ECONOMIC DEVELOPMENT
1975

B. Recent Economic Developments

In 1987 Rhode Island continued to experience economic improvement. Overall establishment employment increased, while total unemployment and the rate of unemployment decreased from the previous year. Nonagricultural wage and salary establishment employment was up by 8,900 and the rate of unemployment declined from 4.1 percent in 1986 to 3.8 percent in 1987.

Recent economic trends and the outlook are examined in greater detail in Sections 2, 3 and 4 of this report. Tables illustrating trends in nonagricultural wage and salary establishment employment, by industry, are presented in Section 2. Tables illustrating historical labor force and unemployment trends are presented in Section 4.

C. Population Trends

Population Change 1970 - 1980 in the United States and Rhode Island

Area	1970 Population	1980 Population	Numerical Change	Percent Change
United States	203,302,031	226,545,805	+ 23,243,774	+ 11.4
Rhode Island	949,723	947,154	- 2,569	- 0.3

Population growth rates obtained from the 1980 Census show the state had a slight population loss, while the nation experienced a significant population gain. The United States

had a population expansion of over 23 million or 11.4 percent over the decade, while Rhode Island declined by 2,569 or 0.3 percent. The drop in the State's population from 1970 to 1980 reflects the effects of Navy Base closings which began in 1973, specifically, the outmigration of transferred military personnel and their families.

Section 2. Economic Developments and Outlook by Industry

A. Recent Developments

Total nonagricultural wage and salary employment in Rhode Island posted a notable increase in 1987. Establishment employment averaged 451,400 in 1987, which was 8,900 or 2.0 percent higher than in 1986.

The improvement in the State's 1987 wage and salary employment was largely the result of an increase of 11,300 in the nonmanufacturing sector, which was offset somewhat by a decrease of 2,400 in manufacturing.

The overall expansion in nonmanufacturing was led by wholesale and retail trade, which added 4,200 jobs, and services, which gained 3,800. Construction employment grew by 1,800. Transportation, communication, and public utilities recorded an annual increase of 900. Finance, insurance, and real estate and government advanced by 500 and 100, espectively.

Although total manufacturing jobs decreased by 2,400 from 1986 to 1987, some industries within this sector posted payroll gains. Miscellaneous manufacturing showed an annual increae of 300, while nonelectrical machinery added 200. Both fabricated metal products and "all other manufacturing" led the decrease in manufacturing employment with a loss of 500 jobs each. Electrical machinery and jewelry both dropped by 400, followed by rubber and plastics' decrease of 300 jobs. The food and kindred products and primary metals industries both experienced a decline of 200 jobs. Instruments, transportation equipment, apparel, and textiles were all down by 100.

RHODE ISLAND

Rev. 1/88

Establishment Employment**

Calendar Year 1987

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual Average
NONAGRICULTURAL WAGE & SALARIED EMPLOYMENT	440.3	438.3	441.2	449.8	453.9	455.7	449.8	452.9	457.2	459.7	460.0	458.3	451.4
MANUFACTURING EMPLOYMENT	115.9	116.5	116.2	116.5	116.4	117.0	113.2	116.4	117.0	117.8	118.0	116.6	116.5
Food and Kindred Products	3.1	3.0	2.8	2.9	2.9	3.0	2.9	3.0	3.1	3.1	3.1	3.1	3.0
Textiles	10.1	10.2	10.2	10.4	10.4	10.5	9.9	10.3	10.2	10.2	10.2	10.0	10.2
Apparel	2.9	2.9	3.0	3.0	3.0	3.0	2.9	3.0	3.0	2.9	2.9	2.9	3.0
Rubber & Misc. Plastics Products	5.6	5.7	5.8	5.8	5.8	5.8	5.7	5.9	5.9	5.9	5.9	5.8	5.8
Primary Metal Industry	5.3	5.3	5.4	5.0	5.0	5.0	4.9	5.1	5.2	5.4	5.3	5.3	5.2
Fabricated Metal Products	9.1	9.0	9.0	8.9	8.9	9.0	8.6	9.0	9.0	9.0	9.0	8.9	9.0
Machinery (exc. electrical)	6.2 *	6.0 *	6.0 *	6.2 *	6.1 *	6.2 *	6.0 *	6.2 *	6.2 *	6.2 *	6.2 *	6.1	6.1
Electrical Machinery	12.1	12.0	12.1	11.8	11.7	11.7	11.4	11.7	11.7	11.8	11.9	11.9	11.8
Transportation Equipment	9.3	9.4	9.3	9.2	9.1	9.1	8.9	9.1	9.2	9.2	9.3	9.3	9.2
Instruments	4.9 *	4.8 *	4.8 *	4.7 *	4.7 *	4.7 *	4.5 *	4.7 *	4.7 *	4.8 *	4.8 *	4.8 *	4.7
Jewelry	22.7	23.3	23.0	23.3	23.2	23.2	22.7	23.3	23.5	23.7	23.8	23.3	23.3
Miscellaneous Manufacturing	5.8	6.0	6.0	6.1	6.2	6.4	6.3	6.2	6.2	6.3	6.2	6.1	6.2
All Other Manufacturing	18.8	18.9	18.8	19.2	19.4	19.4	18.5	18.9	19.1	19.3	19.4	19.1	19.0
NON-MANUFACTURING EMPLOYMENT	324.4	321.8	325.0	333.3	337.5	338.7	336.6	336.5	340.2	341.9	342.0	341.7	334.9
Contract Construction	16.7	15.9	16.7	18.8	19.5	20.4	20.7	20.7	20.6	20.7	20.4	19.9	19.2
Trans., Comm. & Public Utilities	14.9	14.6	14.7	15.4	15.9	16.3	15.5	15.4	15.8	15.8	15.7	15.7	15.5
Wholesale & Retail Trade	100.4	99.0	99.8	101.4	102.6	104.6	104.5	105.1	105.3	105.2	106.2	107.0	103.4
Finance, Insurance & Real Estate	25.0	25.0	25.2	25.2	25.5	25.7	25.9	25.8	25.7	25.6	25.5	25.5	25.5
Service, except domestic	109.2	109.1	110.5	113.9	115.1	113.1	113.5	113.5	115.7	116.0	115.1	114.4	113.2
Government	58.2	58.2	58.1	58.6	58.9	58.6	56.5	56.0	57.1	58.6	59.1	59.2	58.1
NOT INCLUDED IN ABOVE:													
Self-employed, Farm & Other	33.1	31.9	31.9	34.0	33.0	33.5	33.7	34.2	33.0	34.8	34.3	33.4	33.4

* Labor Dispute

** A count of jobs by place of work

RHODE ISLAND

Rev. 1/88

Establishment Employment**

Calendar Year 1986

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug	Sept.	Oct.	Nov.	Dec.	Annual Average
NONAGRICULTURAL WAGE & SALARIED EMPLOYMENT	427.5	429.4	432.5	438.9	444.6	444.9	439.9	444.4	449.2	453.2	453.9	452.3	442.5
MANUFACTURING EMPLOYMENT	117.9	118.4	118.8	118.9	119.0	119.9	115.1	118.9	119.4	120.4	120.9	119.5	118.9
Food and Kindred Products	3.4	3.4	3.2	3.0	3.2	3.2	3.1	3.1	3.3	3.3	3.3	3.3	3.2
Textiles	10.3	10.4	10.5	10.5	10.5	10.5	10.0	10.3	10.3	10.3	10.3	10.2	10.3
Apparel	3.0	3.0	3.1	3.2	3.2	3.2	3.1	3.2	3.2	3.0	3.0	3.0	3.1
Rubber & Misc. Plastics Products	6.3	6.3	6.3	6.1	6.0	6.0	5.7	6.0	6.0	6.0	6.0	5.9	6.1
Primary Metal Industry	5.6	5.7	5.7	5.5	5.3	5.2	5.0	5.2	5.2	5.3	5.4	5.4	5.4
Fabricated Metal Products	9.8	9.6	9.6	9.6	9.5	9.6	9.2	9.5	9.3	9.3	9.3	9.2	9.5
Machinery (exc. electrical)	5.5 *	5.6 *	5.8 *	6.0 *	5.9 *	5.9 *	5.8 *	5.9 *	6.0 *	6.2 *	6.2 *	6.2 *	5.9
Electrical Machinery	12.1	12.2	12.2	12.1	12.1	12.3	11.9	12.2	12.2	12.3	12.4	12.4	12.2
Transportation Equipment	9.1	9.3	9.3	9.5	9.5	9.6	9.2	9.3	9.3	9.3	9.4	9.4	9.3
Instruments	4.9 *	5.0 *	5.0 *	5.0 *	5.0 *	5.0 *	4.8 *	4.8 *	4.8 *	4.7 *	4.7 *	4.7 *	4.8
Jewelry	24.1	23.8	23.6	23.3	23.3	23.4	22.1	23.6	23.9	24.5	24.5	24.0	23.7
Miscellaneous Manufacturing	5.0	5.3	5.5	5.6	5.8	6.0	6.0	6.3	6.2	6.3	6.3	6.1	5.9
All Other Manufacturing	18.8	18.8	19.0	19.5	19.7	20.0	19.2	19.5	19.7	19.9	20.1	19.7	19.5
NON-MANUFACTURING EMPLOYMENT	309.6	311.0	313.7	320.0	325.6	325.0	324.8	325.5	329.8	332.8	333.0	332.8	323.6
Contract Construction	14.2	14.0	14.5	16.8	17.8	18.3	18.8	18.8	18.7	19.2	18.9	18.4	17.4
Trans., Comm. & Public Utilities	14.0	14.0	14.0	14.3	14.7	14.9	14.4	14.4	14.9	15.2	15.1	15.2	14.6
Wholesale & Retail Trade	94.7	94.0	94.7	96.4	98.8	100.6	100.6	101.4	101.6	101.9	102.9	103.9	99.2
Finance, Insurance & Real Estate	24.2	24.4	24.5	24.7	24.9	25.1	25.4	25.5	25.4	25.2	25.2	25.2	25.0
Service, except domestic	104.2	105.6	107.1 *	109.1	111.0	108.5	109.8	109.7	112.1	112.7	111.9	111.2	109.4
Government	58.3	59.0	58.9	58.7	58.4	57.6	55.8	55.7	57.1 *	58.6	59.0	58.9	58.0
NOT INCLUDED IN ABOVE:													
Self-employed, Farm & Other	31.2	30.5	30.2	30.8	31.4	32.1	32.9	33.9	32.1	34.4	33.9	33.0	32.2

* Labor Dispute

** A count of jobs by place of work

B. Industry Outlook

Over the past 5 years, total establishment employment in the state has increased steadily. The 1987 figure of 451,400 was 16.0 percent higher than the 390,500 level of the recession year 1982. This upward employment trend is anticipated to continue into Program Year 1988 (July 1988 to June 1989). Total establishment employment in the state should average approximately 460,000 in Program Year 1988, which will be 8,600 or 1.9 percent higher than the calendar year 1987 level.

The total number of factory jobs in Rhode Island fell somewhat in 1987. Manufacturing payrolls should remain relatively stable through PY 1988, and may even increase slightly. The continued decline in the value of the dollar could lead to a rise in exports, or at least cause foreign products to be less competitive within the U.S. Several industries in the factory sector could benefit from these developments.

Nonmanufacturing is anticipated to attain record high employment levels in PY 1988. In particular, trade and services should continue to move upward in tandem with the expanding national economy.

Section 3: Employment Developments and Outlook by Occupation

A. Recent Developments

The best available indicator of recent occupational demand in the State is Job Service job openings, which represent unfilled employer job orders. Openings which have remained unfilled for 30 days or more are considered hard-to-fill. This section details occupations which had 25 or more hard-to-fill openings at the end of any calendar quarter in 1987.

The professional, technical and managerial occupations did not have a large number of hard-to-fill openings throughout 1987. The only professional occupations appearing on the following list are registered and licensed practical nurses, park ranger, and management trainee.

The clerical and sales occupations usually show a large number of openings. These are often entry level positions and are generally low paying. The greatest demand was for cashier-checker. Other openings in this category included food sales clerk, general clerk, and telephone solicitor.

The greatest demand in the service occupations was for waiter/waitress. There were also numerous openings for fast food worker, kitchen helper, and nurse aide. Both landscape laborer and horticultural worker II had a relatively strong seasonal demand.

The greatest demand in processing occupations was for stringer. Other openings in this category included centrifugal-casting-machine operator, injection mold machine operator, and electroplating laborer.

The greatest demand in the machine trades category was for automobile mechanic. Other hard-to-fill openings in this category included maintenance mechanic and machinist.

Benchworking occupations often have a large number of openings unfilled for thirty consecutive days or more due to low pay and limited advancement potential. There are often more applicants than openings for these jobs, but due to the high turnover in this group, openings are almost always available. Hard-to-fill openings in benchworking included jewelry assembler, jewelry enamler, and solderer.

Many of the structural occupations are of a seasonal nature and have the greatest number of openings in warm weather. Other structural jobs, such as those in the shipbuilding industry, have year-round demand. The most common openings were for construction worker I and carpenter. It should be noted that many construction workers are hired through labor unions, so the Job Service does not have a complete list of employment opportunities in this field. The two occupations in the miscellaneous category which had the largest number of hard-to-fill openings were hand packager and material handler.

The following table lists the occupations which had at least 25 job openings unfilled for more than thirty days at the end of each quarter of 1987. Also shown is the quarterly average of hard-to-fill.

Occupations With Job Openings Unfilled for 30 Days or More During 1987- Quarterly Range of Openings Unfilled and Quarterly Average Number of Openings Unfilled

D.O.T. Code	Occupational Title	Quarterly Range of Openings Unfilled for 30 Days or More	Quarterly Average Number of Openings Unfilled for 30 Days or More
075.374-010	Registered Nurse	37-52	44
079.374-014	Licensed Practical Nurse	38-54	43
169.167-042	Park Ranger	0-50	25
189.167-018	Management Trainee	11-25	20
201.362-030	Secretary	11-43	33
203.362-010	Clerk Typist	5-38	27
209.387-014	Survey Complier	5-29	17
209.562-010	General Clerk	12-61	44
210.367-010	Accountant Information Clerk	0-44	11
211.362-018	Teller	18-49	34
211.462-010	Cashier	16-45	33
211.462-014	Cashier-Checker	56-108	77
211.467-010	Cashier	0-28	8
222.387-058	Stock Clerk	6-32	25
230.667-014	Telephone Directory Deliverer	0-58	19
241.357-010	Utility Bill Collection Clerk	0-69	17
253.257-010	Telemarketing Representative	0-80	20
279.357-054	General Merchandise Salesperson	13-37	30
290.477-014	Sales Clerk	9-57	35
290.477-018	Food Sales Clerk	43-59	52
297.354-010	Demonstrator	0-30	8
299.357-014	Telephone Solicitor	16-63	42
299.367-014	Self Service Store Stock Clerk	25-47	35
299.477-010	Merchandise Deliverer	23-52	39
301.474-010	General House Worker	28-34	31
310.137-010	Host/Hostess	7-30	27
311.472-010	Fast Food Worker	111-248	203
311.477-010	Drive-In Waiter/Waitress	9-32	21
311.477-014	Waiter/Waitress, Counter	66-121	102
311.477-026	Waiter/Waitress, Formal	24-50	38
311.477-030	Waiter/Waitress, Informal	41-157	74
311.677-018	Dining Room Attendant	12-50	30
312.474-010	Bartender	4-26	13
313.361-014	Cook	40-109	76
313.361-022	Short Order Cook	22-68	51
318.687-010	Kitchen Helper	70-204	156
319.467-010	Food Order Expediter	5-33	14
323.687-014	Housekeeping Cleaner	27-78	56
342.663-010	Ride Operator	0-49	13
354.377-014	Home Health Aide	70-109	92
355.674-014	Nurse Aide	87-150	124
372.667-018	Correctional Officer	95-98	96
372.667-034	Security Guard	59-91	74
381.687-014	Cleaner Commercial	51-133	87
382.664-010	Janitor	2-29	14

D.O.T. Code	Occupational Title	Quarterly Range of Openings Unfilled for 30 Days or More	Quarterly Average Number of Openings Unfilled for 30 Days or More
405.687-014	Horticultural Worker II	1-35	17
408.687-014	Landscape Laborer	17-72	49
500.686-010	Electroplating Laborer	11-26	21
502.682-018	Centrifugal-Casting-Machine Operator	12-30	22
509.687-018	Stringer	18-73	44
529.686-058	Shellfish Processing Laborer	6-26	16
556.382-014	Injection Mold Machine Operator	0-44	21
600.280-022	Machinist	14-26	20
616.360-018	Machine Operator	6-28	19
619.685-062	Machine Operator II	7-27	19
620.261-010	Automobile Mechanic	41-83	64
638.281-014	Maintenance Mechanic	2-33	21
683.685-010	Braiding Machine Operator	9-29	19
690.685-014	Assembly Press Operator	28-99	60
700.381-050	Solderer	52-106	73
700.684-014	Jewelry Assembler	29-144	97
700.687-026	Set-Up & Charge	37-93	71
700.687-058	Polisher	13-87	62
700.687-062	Jewelry Preparer	2-31	19
706.687-010	Production Assembler	0-35	15
726.684-018	Electronics Assembler	4-102	58
735.381-010	Jewelry Bench Worker	2-25	18
735.687-014	Jewelry Linker	19-34	29
735.687-026	Jewelry Racker	8-52	29
735.687-034	Jewelry Stone Setter	11-64	41
739.361-010	Display Maker	0-27	18
739.687-030	Small Products Assembler	26-80	58
740.684-018	Jewlery Enameler	64-112	86
787.682-046	Sewing Machine Operator	14-38	26
806.381-046	Shipfitters	14-60	33
807.381-010	Auto Body Repairer	13-29	22
819.685-010	Fusion Machine Operator	8-28	17
840.381-010	Painter	11-52	34
860.381-022	Carpenter	19-83	55
869.664-014	Construction Worker I	29-114	78
869.687-026	Construction Worker II	7-51	40
899.381-010	Building Maintenance Repairer	8-46	25
913.463-010	Bus Driver	29-49	33
919.683-014	Car Jockey	0-25	7
920.587-018	Hand Packer	93-189	155
922.687-058	Stores Laborer	24-91	57
929.687-030	Material Handler	35-184	137

B. Occupational Outlook for Program Year 1988

In Program Year 1988 the State's economy is expected to show continued expansion. Based on the types of occupations which had the greatest numbers of hard-to-fill openings during 1987, many of the jobs which will be available in Program Year 1988 are anticipated to be in relatively low paying, unskilled, high turnover occupations. The demand for highly trained persons and college graduates will be more limited, but there should be openings available for some professional and skilled occupations such as registered nurse, licensed practical nurse, shipfitter, and automobile mechanic.

It should be noted that the demand list shown here represents only job openings listed with the Rhode Island Job Service, and the exact extent to which the Job Service constitutes a primary hiring channel for a given occupation is not known. Demand, therefore, is more likely to be understated than overstated; also, some occupations for which a significant demand exists may not be apparent from the data available.

Based on last year's list of unfilled openings, and job openings which have recently been received by the State Job Service, the following is a list of occupations for which there will most likely be a demand in Program Year 1988.

Professional and Technical: Registered nurse, licensed practical nurse.

Clerical and Sales: Telemarketing representative, cashier-checker, utility bill collection clerk.

Service: Kitchen helper, fast food worker, nurse aide.

Agricultural, Fishery, Forestry and Related: Landscape laborer.

Machine Trades: Assembly press operator, automobile mechanic.

Benchwork: Jewelry assembler, jewelry enamler, set - up & charge.

Structural: Construction worker I, construction worker II, carpenter, shipfitter.

Miscellaneous: Hand packager, material handler.

The following table lists occupations with 25 or more hard-to-fill openings at the end of February 1988. This table represents the latest available data on demand for workers.

Occupations With 25 or More Job Openings Unfilled for 30 Days or More at the End of February 1988

D.O.T. Code	Occupational Title	Number of Openings Unfilled for 30 Days or More
075.374-010	Registered Nurse	40
079.374-014	Licensed Practical Nurse	37
201.362-030	Secretary	36
203.362-010	Clerk Typist	32
209.562-010	General Clerk	29
211.462-010	Cashier	37
211.462-014	Cashier-Checker	57
219.362-022	Telegraph Service Clerk	37
241.357-010	Utility Bill Collection Clerk	50
253.257-010	Telemarketing Representative	80
279.357-054	General Merchandise Salesperson	32
290.477-014	Sales Clerk	43
290.477-018	Food Sales Clerk	49
299.357-014	Telephone Solicitor	39
299.367-014	Self Service Store Stock Clerk	43
299.477-010	Merchandise Deliverer	27
301.474-010	General House Worker	26
311.472-010	Fast Food Worker	134
311.477-010	Drive-in Waiter/Waitress	33
311.477-014	Waiter/Waitress, Counter	118
311.477-030	Waiter/Waitress, Informal	96
311.677-018	Dining Room Attendant	43
313.361-014	Cook	68
313.361-022	Short Order Cook	61
318.687-010	Kitchen Helper	162
323.687-014	Housekeeping Cleaner	49
354.377-014	Home Health Aide	95
355.674-014	Nurse Aide	123
372.667-018	Correctional Officer	93
372.667-034	Security Guard	47
381.687-014	Commercial Cleaner	44
408.687-014	Landscape Laborer	39
500.380-010	Plater	26
502.682-018	Centrifugal-Casting-Machine Operator	32
509.687-018	Stringer	57
556.382-014	Injection Mold Machine Operator	41
620.261-010	Automobile Mechanic	44
690.685-014	Assembly Press Operator	49
700.381-050	Solderer	94
700.684-014	Jewelry Assembler	107
700.687-026	Set-up & Charge	64
700.687-058	Polisher	63
735.381-010	Jewelry Bench Worker	26
735.687-014	Jewelry Linker	31
735.687-026	Jewelry Racker	53
735.687-034	Jewelry Stone Setter	50
740.684-018	Jewelry Enameler	104
806.381-046	Shipfitters	38

D.O.T. Code	Occupational Title	Number of Openings Unfilled for 30 Days or More
807.381-010	Auto Body Repairer	28
860.381-022	Carpenter	46
860.381-058	Shipwright	26
869.664-014	Construction Worker I	52
869.687-026	Construction Worker II	68
899.381-010	Building Maintenance Repairer	33
920.587-018	Hand Packager	178
922.687-058	Stores Laborer	54
929.687-030	Material Handler	58

C. Long-Term Occupational Outlook

Data from the publication Rhode Island Occupational Outlook to 1990 indicates the largest number of annual job openings will be found in service occupations and clerical occupations. Significant numbers of openings will also occur in the professional, technical and kindred occupations and in the managers and officials category. Very few jobs will be available in the transportation equipment operatives and farm workers categories.

In all occupational groups, the majority of job opportunities will be the result of separations from the labor force, rather than economic expansion. Separations from the labor force include worker retirements, deaths, and persons leaving jobs to raise families.

Only one occupation - secretary - is expected to have more than 700 annual job openings. Over two-thirds of these openings will be the result of worker replacement. There are anticipated to be more than 600 openings annually for nurse aides/orderlies.

Openings for general office clerks, professional nurses, sales clerks, and guards and doorkeepers are expected to range between 400 and 500 positions annually. Kitchen helpers, cashiers and waiter/waitresses are anticipated to

have from 300 to 400 jobs available each year. Between 200 and 300 openings annually are forecast for elementary school teachers and bookkeepers.

Between 100 and 200 annual openings are projected for: store managers; carpenters; licensed practical nurses; accountants and auditors; typists; production packagers; accounting clerks; child care workers; inspectors; truck driving occupations; sales representatives; stock clerks; bench-workers; bartenders; lawyers; assemblers; restaurant managers; receptionists; welders; gardeners and grounds-keepers; maintenance repairers; and food preparation workers (fast food).

The following table lists by occupation the average annual number of job openings expected to occur due to growth and separation between 1980 and 1990.

AVERAGE ANNUAL NUMBER OF JOB OPENINGS, BY OCCUPATION DURING 1980-1990 PERIOD FOR RHODE ISLAND

MATRIX CODE	OCCUPATIONAL TITLE	Net Openings	Openings Due to Growth	Openings Due to Separation
00000000	TOTAL ALL OCCUPATIONS	20,220	3,350	16,870
10000000	Professional, Technical & Kindred Occ.	3,240	840	2,400
10020000	Engineers	195	65	130
10020400	Chemical Engineers	5	0	5
10020600	Civil Engineers	35	5	30
10020800	Electrical Engineers	40	20	20
10021000	Industrial Engineers	30	15	15
10021200	Mechanical Engineers	50	15	35
10021400	Metallurgists & Met. Engineers	0	0	0
10022000	Other Engineers	35	10	25
10040000	Life and Physical Scientists	30	5	25
10040200	Agricultural Scientists	5	0	5
10040600	Life Scientists	10	0	10
10040601	Biological Scientists	5	0	5
10040602	Medical Scientists	5	0	5
10040800	Chemists	15	5	10
10041000	Geologists & Geophysicists	0	0	0
10041400	Physicists	0	0	0
10041600	Life and Physical Scientists, n.e.c.	0	0	0
10060000	Mathematical Specialists	15	0	15
10060200	Actuaries	0	0	0
10060400	Mathematical Scientists	15	0	15
10060402	Mathematicians	5	0	5
10060403	All Other Math Scientists	10	0	10
10060600	Statisticians	0	0	0
10080000	Engineering, Science Technicians	130	50	80
10080600	Drafters	35	10	25
10080800	Electrical, Electronic Techs.	45	25	20
10080803	Electrical & Electronic Techs.	45	25	20
10080808	Broadcast Technicians	0	0	0
10081000	Industrial Engineering Techs.	0	0	0
10081400	Mechanical Engineering Techs.	10	5	5
10081600	Surveyor	0	0	0
10081800	Engineering & Sci. Techs., n.e.c.	40	10	30
10081811	Colorists Textiles	0	0	0
10081815	Civil Engineering Techs.	5	0	5
10081898	All Other Engineering Techs.	20	5	15
10081899	All Other Science Techs.	15	5	10
10100000	Medical Workers, Ex. Techs.	785	305	480
10100200	Chiropractors	5	5	0
10100400	Dentists	35	20	15
10100600	Dieticians &/or Nutritionists	25	10	15
10100800	Nurses, Professional	460	180	280
10101000	Optometrists	10	0	10

AVERAGE ANNUAL NUMBER OF JOB OPENINGS, BY OCCUPATION DURING 1980-1990 PERIOD FOR RHODE ISLAND

MATRIX CODE	OCCUPATIONAL TITLE	Net Openings	Openings Due to Growth	Openings Due to Separation
Professional, Technical & Kindred Workers (Cont'd.)				
10101200	Pharmacists	70	10	60
10101400	Physicians &/or Surgeons	85	40	45
10101600	Podiatrists	10	0	10
10101800	Therapists	80	40	40
10101801	Occupational Therapists	10	5	5
10101802	Manual Arts, Music, Rec. Therapists	10	5	5
10101803	Speech & Hearing Clinicians, Etc.	15	10	5
10101804	Physical Therapists	20	10	10
10101809	Inhalation Therapists	15	5	10
10101810	All Other Therapists	10	5	5
10102000	Veterinarians	5	0	5
10120000	Other Health Technologists & Technicians	420	150	270
10120200	Clinical Lab Technologists & Technicians	55	20	35
10120201	Medical Lab Technologists	25	10	15
10120202	Biochemistry Technologist	5	0	5
10120203	Microbiology Technologists	0	0	0
10120204	Cytotechnologists	0	0	0
10120205	Histologic Technologists	0	0	0
10120206	Medical Lab Assistants	25	10	15
10120207	Blood Bank Tech. Specialists	0	0	0
10120400	Dental Hygienists & Assts.	75	40	35
10120401	Dental Assistants	50	25	25
10120402	Dental Hygienists	25	15	10
10120600	Medical Record Libarians	10	5	5
10120800	Radiologic Technols. & Techns.	35	10	25
10120801	X-Ray Technicians	20	5	15
10120804	Radiologic Techns. & Nuc. Med. Techs.	15	5	10
10121000	Other Health Technols., Techs.	245	75	170
10121002	Surgical Technicians	5	0	5
10121006	EKG Technicians	5	0	5
10121007	EEG Technicians	0	0	0
10121008	Emergency Medical Technician	5	0	5
10121009	Pharmacy Helpers	15	5	10
10121010	Licensed Practical Nurse	185	60	125
10121011	Dietetic Technician	10	5	5
10121012	Physical Therapy Technicians	5	0	5
10121099	All Other Medical & Dental Techs.	15	5	10
10140000	Technicians, Ex. Health or S & E	20	10	10
10140200	Airplane Pilots	0	0	0
10140400	Airtraffic Controllers	0	0	0
10140600	Embalmers	0	0	0
10141000	Radio Operators	0	0	0
10141200	Tool Programmers, Numerical Control	0	0	0
10141400	Other Technicians, Ex. Health or S & E	20	10	10
10141404	All Other Technicians	20	10	10

AVERAGE ANNUAL NUMBER OF JOB OPENINGS, BY OCCUPATION DURING 1980-1990 PERIOD FOR RHODE ISLAND

MATRIX CODE	OCCUPATIONAL TITLE	Net Openings	Openings Due to Growth	Openings Due to Separation
Professional, Technical & Kindred Occ. (Cont'd.)				
10141405	Technical Assistant, Library	0	0	0
10160000	Computer Specialists	150	120	30
10160200	Computer Programmers	75	60	15
10160400	Systems Analysts, EDP	75	60	15
10180000	Social Scientists	25	10	15
10180200	Economists	0	0	0
10180201	Financial Analysts	0	0	0
10180202	Economists	0	0	0
10180600	Psychologists	20	10	10
10181000	Urban and Regional Planners	0	0	0
10181200	All Other Social Scientists	5	0	5
10200000	Teacher	440	-95	535
10201000	Teachers Adult Education	35	10	25
10202000	College & University Teachers	15	-30	45
10202001	Teachers Voc. Ed. or Training	0	0	0
10202002	Teachers College	15	-20	35
10202003	Graduate Assistants	0	-10	10
10202004	Extention Service Spec.	0	0	0
10203000	Teachers Elementary	275	-5	280
10205000	Teachers Secondary	65	-75	140
10206000	Teachers, n.e.c.	50	5	45
10206001	Dance Instructors	5	0	5
10206099	All Other Teachers	45	5	40
10220000	Writers, Artists, Entertainers	140	25	115
10220200	Actors or Actresses	0	0	0
10220400	Athletes & Kindred Workers	0	0	0
10221000	Designing Occupations	35	5	30
10221200	Editors & Reporters	35	5	30
10221201	Writers &/or Editors	25	5	20
10221203	Reporters & Correspondents	10	0	10
10221400	Musicians	10	0	10
10221600	Painters & Sculptors & Commercial Artists	20	0	20
10221800	Photographic Occupations	15	5	10
10220000	Public Relations Specialists	15	5	10
10222000	Radio, TV Announcers	10	5	5
10240000	All Other Professional & Technical Workers	890	195	695
10240200	Accounting Occupations	190	70	120
10240201	Accountants & Auditors	175	65	110
10240203	Tax Examiners, Collectors, Rev. Agents	10	0	10
10240204	Tax Preparers	5	5	0
10240400	Architects	0	0	0
10240600	Archivists & Curators	0	0	0
10240800	Buying Occupations	70	5	65
10240801	Purchasing Agents &/or Buyers	30	5	25
10240803	Media Buyers	0	0	0

AVERAGE ANNUAL NUMBER OF JOB OPENINGS, BY OCCUPATION
DURING 1980-1990 PERIOD FOR RHODE ISLAND

MATRIX CODE	OCCUPATIONAL TITLE	Net Openings	Openings Due to Growth	Openings Due to Separation
Professional, Technical & Kindred Occ. (Cont'd.)				
10240604	Buyers, Retail &/or Wholesale	40	0	40
10241000	Clergy	65	10	55
10241200	Directors, Rel. Act. &/or Rel. Ed.	0	0	0
10242000	Judicial Workers	10	0	10
10242200	Lawyers & Kindred Workers	150	45	105
10242201	Law Clerks	5	0	5
10242202	Lawyers	115	30	85
10242203	Paralegal Personnel	30	15	15
10242400	Librarians & Related Workers	30	0	30
10242800	Personnel & Employment Workers	50	5	45
10242802	Personnel, Labor Relations Spec.	35	5	30
10242803	Employment Interviewers	15	0	15
10243200	Recreation Workers	35	5	30
10243400	Social Workers	105	25	80
10243401	Caseworkers	85	20	65
10243404	Welfare Investigators	5	5	0
10243405	Community Organization Wkrs.	15	0	15
10243600	Vocational & Educ. Counselors	25	0	25
10243800	Misc. Professional Workers	160	30	130
10243804	Cost Estimators	20	5	15
10243809	Credit Analysts Chief	0	0	0
10243810	Credit Analysts	0	0	0
10243811	Title Examiners &/or Abstractors	0	0	0
10243813	Estimators, Printing Services	0	0	0
10243814	Underwriters	20	5	15
10243816	Appraisers, Real Estate	5	0	5
10243817	Assessors	0	0	0
10243820	Special Agents, Insurance	5	0	5
10243821	Travel Agents, Tr. Accom. Appraisers	10	0	10
10243822	Claims Examiners, Prpty./Cslty. Ins.	15	10	5
10243899	All Other Professional Wkrs.	85	10	75
20000000	Managers & Officials	2,065	185	1,880
20020000	Sales Managers	45	10	35
20040000	Administrators, Pub. Inspectors	50	0	50
20040400	Construction Inspectors	10	0	10
20040800	Public Admin. Inspectors, Ex. Const.	15	0	15
20041000	Chief Executives, Legis.	25	0	25
20041200	Postmasters &/or Mail Superints.	0	0	0
20060000	Other Managers, Officials & Props.	1,970	175	1,795
20060800	Officers, Pilots, Pursers, Ship	0	0	0
20061200	Conductors, Train	5	0	5
20061400	Managers, Restaurant, Coffee Shop, Etc.	115	30	85
20061600	Other Managers & Administrators	1,850	145	1,705
20061612	Manager Stores	190	5	185
20061613	Manager Auto Service Dept.	10	0	10

AVERAGE ANNUAL NUMBER OF JOB OPENINGS, BY OCCUPATION
DURING 1980-1990 PERIOD FOR RHODE ISLAND

MATRIX CODE	OCCUPATIONAL TITLE	Net Openings	Openings Due to Growth	Openings Due to Separatio
Managers & Officials (Cont'd.)				
20061614	Manager Auto Parts Dept.	5	0	5
20061615	Wholesalers	45	5	40
20061699	All Other Managers	1,600	135	1,465
30000000	Sales Workers	955	135	820
30001000	Insurance Agents, Brokers Etc.	45	10	35
30001400	Real Estate Agents, Brokers	25	5	20
30001401	Business Brokers	0	0	0
30001402	Real Estate Brokers	5	0	5
30001403	Sales Agents, Sales Rep. Real Estate	20	5	15
30001600	Stock & Bonds Sales Agents	15	0	15
30001604	Sales Agent, Sales Rep., Fin. Serv.	5	0	5
30001605	Sales Agent, Sales Rep., Security	10	0	10
30001800	Misc. Sales Workers	870	120	750
30001802	Sales Clerks	435	50	385
30001803	Vendors	0	0	0
30001804	Contribution Solicitors	0	0	0
30001805	Crating & Moving Estimators	0	0	0
30001806	Sales Clerk Supervisors	5	0	5
30001807	Sales Rep. Nontechnical	95	15	80
30001808	Sales Rep. Technical	140	5	135
30001899	All Other Sales Workers	195	50	145
40000000	Clerical Workers	3,935	695	3,240
40020000	Stenos., Secretaries & Typists	930	225	705
40020200	Secretaries	730	220	510
40020400	Stenographers	25	-15	40
40020600	Typists	175	20	155
40040000	Office Machine Operators	170	40	130
40040200	Office Machine Operators	40	5	35
40040201	Bookkeeping/Billing Mach. Ops.	35	5	30
40040202	Proofmachine Operators	5	0	5
40040600	Computer, Peripheral Equip. Ops.	85	50	35
40040601	Computer Operators	70	40	30
40040602	Peripheral EDP Equip. Ops.	15	10	5
40040800	Duplicating Machine Operators	15	5	10
40041000	Keypunch Operators	15	-20	35
40041400	All Other Office Machine Ops.	15	0	15
40060000	Other Clerical Workers	2,835	430	2,405
40060200	Bank Tellers	85	10	75
40060201	New Account Tellers	10	0	10
40060203	Tellers	75	10	65
40060600	Bookkeepers	400	65	335
40060601	Accounting Clerks	160	25	135
40060603	Bookkeepers, Hand	240	40	200
40060800	Cashiers	340	90	250
40061000	Eligibility Workers, Welfare	15	0	15

AVERAGE ANNUAL NUMBER OF JOB OPENINGS, BY OCCUPATION DURING 1980-1990 PERIOD FOR RHODE ISLAND

MATRIX CODE	OCCUPATIONAL TITLE	Net Openings	Openings Due to Growth	Openings Due to Separation
Clerical Workers (Cont'd.)				
40061200	Clerical Supervisors	110	20	90
40061400	Collectors	10	0	10
40061600	Counter Clerks, Ex. Food	95	20	75
40061603	Desk Clerks	10	0	10
40061604	Order Clerks	80	20	60
40061605	Circulation Clerks	0	0	0
40061607	Telephone Ad Takers, Newspaper	5	0	5
40061608	Desk Clerks, Bowling Floor	0	0	0
40061699	All Other Counter Clerks, Ex. Food	0	0	0
40061800	Dispatchers, Starters, Vehicles	15	0	15
40061803	Dispatchers, Police, Fire, Ambulance	5	0	5
40061804	Dispatchers, Vehicle, Service or Wk.	10	0	10
40062000	Survey Workers	5	0	5
40062200	Estimators, Investigators, n.e.c.	35	5	30
40062201	Credit Authorizers	5	0	5
40062208	Adjustment Clerks	5	0	5
40062209	Checking Clerks	5	0	5
40062210	Claims Clerks	15	5	10
40062211	Credit Reporters	5	0	5
40062299	All Other Estimators, Invest. n.e.c.	0	0	0
40062400	Production Clerks	50	10	40
40062600	File Clerks & Related Workers	70	15	55
40062601	File Clerks	55	15	40
40062699	Personnel Clerks & Admissions Eval.	15	0	15
40062800	Claims Workers, Insurance	35	15	20
40062801	Claims Examiners, Insurance	25	10	15
40062803	Claims Adjuster	10	5	5
40063000	Library Assistants	20	0	20
40063200	Postal Mail Carriers	30	-10	40
40063400	Mail Handlers, Ex. Postal Svc.	10	0	10
40063600	Messengers & Office Helpers	5	0	5
40063601	Messengers, Bank	0	0	0
40063602	Messengers	5	0	5
40063800	Meter Readers	5	0	5
40064000	Payroll Time Keeping Clerks	60	10	50
40064200	Postal Service Clerks	5	-5	10
40064400	Proofreaders	5	0	5
40064800	Receptionists & Related Workers	175	40	135
40064802	Receptionists	115	30	85
40064803	Switchboard Ops./Receptionists	60	10	50
40065000	Shipping, Receiving Occupations	175	35	140
40065001	Shipping & Receiving Clerks	80	20	60
40065002	Shipping Packers	95	15	80
40065200	Statistical Clerk	25	5	20
40065205	Brokerage Clerk	0	0	0

AVERAGE ANNUAL NUMBER OF JOB OPENINGS, BY OCCUPATION
DURING 1980-1990 PERIOD FOR RHODE ISLAND

MATRIX CODE	OCCUPATIONAL TITLE	Net Openings	Openings Due to Growth	Openings Due to Separatio
Clerical Workers (Cont'd.)				
40065209	Raters	10	0	10
40065211	Statistical Clerks	15	5	10
40065216	Court Clerk	0	0	0
40065217	Insurance Checkers	0	0	0
40065299	All Other Statistical Clerks	0	0	0
40065400	Stock Clerks, Storekeeper	150	25	125
40065402	Procurement Clerks	10	0	10
40065404	Stock Clerks, Stockroom, Whse., Etc.	140	25	115
40065600	Teachers Aides/Education Assts.	65	25	40
40066200	Telephone Operators	45	-5	50
40066201	Switchboard Operators	30	0	30
40066202	Central Office Operators	15	-5	20
40066299	All Other Telephone & Telegraph Ops.	0	0	0
40066400	Ticket, Station, Express Agents	5	0	5
40066600	Weighers, Recordkeeping	5	0	5
40066800	All Other Clerical Workers	785	60	725
40066801	Loan Closers	5	0	5
40066808	Service Representatives	15	0	15
40066811	General Clerks Office	480	50	430
40066812	In-File Operators	0	0	0
40066815	Policy Change Clerks	10	0	10
40066818	Real Estate Clerks	0	0	0
40066823	Statement Clerks	5	0	5
40066824	Service Clerks	0	0	0
40066840	Town Clerks	5	0	5
40066841	Credit Clerks Banks &/or Ins.	5	0	5
40066842	Mortgage Closing Clerks	0	0	0
40066846	Insurance Clerks, Medical	15	5	10
40066848	License Clerks	5	0	5
40066898	All Other Office Clerical Wkrs.	195	5	190
40066899	All Other Plant Clerical Wkrs.	45	0	45
50000000	Crafts And Kindred Workers	1,850	255	1,595
50020000	Construction Craft Workers	480	65	415
50020200	Carpenters	185	20	165
50020600	Brickmason & Stonemasons	40	5	35
50020601	Bricklayers	30	5	25
50020602	Stonemasons	5	0	5
50020606	Refractory Materials Repairers	5	0	5
50021200	Cement Mason	5	0	5
50021400	Electricians	55	5	50
50021800	Excavating, Grading Mach. Ops.	40	20	20
50022200	Painters, Maintenance	60	0	60
50022600	Paperhangers	10	0	10
50022800	Plasterers & Related Occupations	10	0	10
50023200	Plumbers & Pipefitters	65	15	50

AVERAGE ANNUAL NUMBER OF JOB OPENINGS, BY OCCUPATION
DURING 1980-1990 PERIOD FOR RHODE ISLAND

MATRIX CODE	OCCUPATIONAL TITLE	Net Openings	Openings Due to Growth	Openings Due to Separation
Crafts & Kindred Workers (Conc'd.)				
50023600	Roofers	5	0	5
50023800	Structural Steel Workers	5	0	5
50024000	Tile Installing Occupations	0	0	0
50040000	Blue Collar, Working Supervisors	200	25	175
50060000	Metal Working Crafts Workers, Ex. Mech.	180	10	170
50060400	Boilermakers	0	0	0
50060600	Heat Treaters, Annealers, Etc.	5	0	5
50060800	Forge & Hammer Operators	0	0	0
50061000	Job & Die Setters, Metal	40	5	35
50061002	Die Setters	0	0	0
50061003	Machine Tool Setters Metal Wrk.	30	5	25
50061007	Punch Press Setters, Metal	10	0	10
50061008	Shear &/or Slitter Setter	0	0	0
50061009	Setters, Plastic Molding Mach.	0	0	0
50061200	Machining Occupations	45	5	40
50061202	Layout Markers, Metals	0	0	0
50061206	Machinists	45	5	40
50061600	Millwrights	5	0	5
50061800	Molders Metal	0	0	0
50061801	Metal Mold Makers	0	0	0
50061804	Molders, Bench &/or Floors	0	0	0
50061805	Molders, Machine (Metal)	0	0	0
50062200	Pattern & Model Makers	5	0	5
50062400	Rollers & Finishers, Metal	0	-5	5
50062415	Rolling Mill Ops./Attendant	0	-5	5
50062499	All Other Rollers & Finishers Metal	0	0	0
50062600	Sheet Metal Workers	20	5	15
50063000	Toolmakers & Diemakers	60	0	60
50080000	Mechanics, Repairers, Installers	280	40	240
50080200	Refrigeration Mechanic, A/C Mech.	15	0	15
50080402	Aircraft Mechanic	5	0	5
50080600	Autoseat Cover, Top Installers	0	0	0
50080800	Autobody Repairers	10	0	10
50081000	Automotive Mechanic	75	15	60
50081800	Heavy Equip. Mechs., Inc. Diesel	60	5	55
50081803	Engineering Equip. Mechs.	5	0	5
50081806	Marine Mechs., Repairers	0	0	0
50081807	Maintenance Mechanics	50	5	45
50081810	Treatment Plant Mechs.	0	0	0
50081811	Knitting Machine Fixers	0	0	0
50081814	Section Repairers & Setters	5	0	5
50082000	Household Appl. Mech. & Inst.	5	0	5
50082002	Electric Meter Installers, Etc.	0	0	0
50082005	Gas & Electric Appliance Installers	5	0	5
50082007	Household Appliance Installer	0	0	0

AVERAGE ANNUAL NUMBER OF JOB OPENINGS, BY OCCUPATION
DURING 1980-1990 PERIOD FOR RHODE ISLAND

MATRIX CODE	OCCUPATIONAL TITLE	Net Openings	Openings Due to Growth	Openings Due to Separatio
Crafts & Kindred Workers (Cont'd.)				
50082009	Water Meter Installer	0	0	0
50082012	Household Appliance Repairer	0	0	0
50082200	Loom Fixers	0	-10	10
50082400	Office Machine Servicers/Cash Reg. Svc.	30	20	10
50082600	Radio & TV Servicers & Repairers	10	5	5
50082800	Railroad Car Shop Repairers	5	0	5
50083000	Other Mechs., Repairers, Installers	65	5	60
50083202	Bicycle Repairers	5	0	5
50083204	Electric Motor Repairers	5	0	5
50083212	Locksmiths	0	0	0
50083215	Coin Machine Servicers, Repairers	5	0	5
50083221	Instrument Repairers	0	0	0
50083222	Diesel Mechanics	20	5	15
50083224	Electromedical Equip. Repairers	0	0	0
50083225	Pinsetters Mechs., Automatic	0	0	0
50083229	All Other Mechs. & Repairers	30	0	30
50100000	Printing Trade Craft Workers	45	-5	50
50100200	Bookbinding Occupations	15	0	15
50100205	Bookbinders Machine	5	0	5
50100206	Bindery Workers, Assembly	5	0	5
50100208	All Other Bindery Workers	5	0	5
50100400	Compositiors &/or Typesetters	5	-5	10
50100800	Engravers Ex. Photoengravers	5	0	5
50101000	Photoengravers, Lithographers	10	0	10
50101001	Strippers Printing	5	0	5
50101002	Camera Operators, Printing	5	0	5
50101003	Photoengravers	0	0	0
50101200	Press & Plate Printers	10	0	10
50101201	Press Operators, Plate Printers	5	0	5
50101202	Offset Lithographic Press Ops.	5	0	5
50101203	Platemakers	0	0	0
50101206	Gravure Press Operators	0	0	0
50101207	Letter Press Operators	0	0	0
50101209	Steel Die Press Operators	0	0	0
50101299	Other Press & Plate Printers	0	0	0
50120000	Transportation, Pub. Util. Craftworkers	15	0	15
50120200	Elec. Powerline Inst., Repairers	10	5	5
50120201	Cable Splicers	5	5	0
50120202	Line Installers, Repairers	5	0	5
50120400	Locomotive Engineers Occupations	0	0	0
50120600	Locomotive Engineer Helpers	0	0	0
50120800	Power Station Operators	0	0	0
50121000	Telephone Installers, Repairers	5	-5	10
50121001	Installers, Repairers, Sec. Maint.	0	0	0
50121003	Station Installers	5	0	5

AVERAGE ANNUAL NUMBER OF JOB OPENINGS, BY OCCUPATION DURING 1980-1990 PERIOD FOR RHODE ISLAND

MATRIX CODE	OCCUPATIONAL TITLE	Net Openings	Openings Due to Growth	Openings Due to Separation
Crafts & Kindred Workers (Cont'd.)				
50121010	Central Office Repairers	0	-5	5
50121011	Trouble Locators, Test Desk	0	0	0
50140000	Other Crafts, Kindred Workers	650	120	530
50140200	Baking Occupations	15	0	15
50140400	Cabinetmakers	15	0	15
50140600	Carpet Cutters, Carpet Layers	5	0	5
50140800	Crane, Derrick, Hoist Occups.	10	5	5
50141000	Merchandise Displayers & Wind Trmrs.	5	0	5
50141200	Dental Lab Technicians	0	0	0
50141400	Furniture Finishers	0	0	0
50141800	Glazing Occupations	5	0	5
50142200	Other Inspection Occupations	175	10	165
50142202	Inspectors	150	10	140
50142205	Testers	25	0	25
50142400	Jewelers & Watchmakers	60	5	55
50142401	Jewelers &/or Silversmiths	35	5	30
50142402	Watchmakers	5	0	5
50142410	Stone Setters	20	0	20
50142800	Motion Picture Projectionists	10	0	10
50143000	Opticians, Lens Grinders, Polisher	5	0	5
50143400	Shipfitters	60	25	35
50143600	Shoe Repairing Occupations	5	0	5
50144000	Stationary Engineering Occ.	20	0	20
50144003	Diesel Plant Operators	0	0	0
50144013	Sewage Plant Operators	5	0	5
50144014	Stationary Engineer	5	0	5
50144015	Turbine Operator	0	0	0
50144019	Pump. Stat. Operators, Waterworks	0	0	0
50144025	Water Treatment Plant Operators	5	0	5
50144099	All Other Stationary Eng. Occ.	5	0	5
50144200	Stone Cutting & Carving Occ.	0	0	0
50144400	Tailors	20	0	20
50144600	Upholstering Occupations	5	0	5
50144601	Furniture Upholsterers	5	0	5
50144699	All Other Upholstering Occ.	0	0	0
50144800	Craft & Kindred Workers n.e.c.	235	75	160
50144819	Machine Setters, Papergoods	0	0	0
50144821	Maintenance Repairers, Gen. Util.	100	30	70
50144899	All Other Skilled Craft Wkrs.	135	45	90
61000000	Operatives Ex. Transportation	1,890	105	1,785
61020000	Semiskilled Metalworking Ops.	395	70	325
61020200	Drill Press Ops.	35	0	35
61020400	Furnace Tndrs., Smelters, Pourers	5	0	5
61020404	Casters, Finished or Semifinished Prod.	0	0	0
61020435	Pourers, Metal	0	0	0

AVERAGE ANNUAL NUMBER OF JOB OPENINGS, BY OCCUPATION
DURING 1980-1990 PERIOD FOR RHODE ISLAND

MATRIX CODE	OCCUPATIONAL TITLE	Net Openings	Openings Due to Growth	Openings Due to Separatic
Operatives Ex. Transporatation (Cont'd.)				
61020436	Furnace Operators, Cupola Tenders	5	0	5
61020600	Grinding/Abrading Mach. Ops., Metal	45	0	45
61020800	Heaters, Metal	0	0	0
61021000	Lathe, Milling Mach. Ops.	45	5	40
61021003	Jewel-Bearing Lathe. Ops.	0	0	0
61021006	Lathe Machine Operators, Metal	35	5	30
61021007	Milling/Planning Mach. Ops	10	0	10
61021099	All Other Lathe, Milling Mach. Ops.	0	0	0
61021200	Metal Platers	20	0	20
61021201	Electroplaters	15	0	15
61021202	Dip Platers, Nonelectrolytic	5	0	5
61021400	Other Precision Mach. Ops.	55	5	50
61021402	Machine Tool Operators, Combo.	40	5	35
61021403	Machine Tool Operators, Num. Control	10	0	10
61021404	Wood Machinists	0	0	0
61021405	Machine Tool Ops., Tool Room	5	0	5
61021600	Power Press Operatives	80	10	70
61021609	Punch Press Ops., Metal	70	10	60
61021610	Punch Press Ops., Plastic	5	0	5
61021611	Power Brake, Bending Mach. Ops., Met.	5	0	5
61022000	Welders & Flamecutters	110	50	60
61040000	Semiskilled Textile Operatives	105	-65	170
61040200	Carding, Lapping, Combing Ops.	0	-5	5
61040202	Card Tenders, Comber Tenders, Etc.	0	-5	5
61040203	Drawing Frame & Gill Box Tenders	0	0	0
61040207	Slubber Tenders	0	0	0
61040208	Drawers-In, Hand	0	0	0
61040299	All Other Carding, Lapping, Combing Ops.	0	0	0
61040400	Knitters, Loopers & Toppers	10	0	10
61040403	Knitting Machine Operators	10	0	10
61040409	Warp Knitting Mach. Ops	0	0	0
61040499	All Other Knitters, Loopers & Toppers	0	0	0
61040600	Spinners, Twisters	70	-35	105
61040601	Beam Warptenders &/or Beamers	5	-5	10
61040604	Bobbin Winders, Mach/Sewing Mach.	5	0	5
61040606	Creelers Yarn	5	0	5
61040607	Doffers	5	0	5
61040608	Dresser Tender	0	0	0
61040610	Quilling Mach. Operators	5	0	5
61040612	Spinners Frame	5	-5	10
61040613	Threaders, Knitgoods	5	0	5
61040615	Twister Tenders	5	-10	15
61040616	Warp Tying Mach. Tenders	0	0	0
61040617	Winder Operators, Automatic	5	-5	10
61040618	Yarn Winders	20	-10	30

AVERAGE ANNUAL NUMBER OF JOB OPENINGS, BY OCCUPATION
DURING 1980-1990 PERIOD FOR RHODE ISLAND

MATRIX CODE	OCCUPATIONAL TITLE	Net Openings	Openings Due to Growth	Openings Due to Separation
Operatives Ex. Transportation (Cont'd.)				
61040619	Spooler Operators, Automatic	5	0	5
61040699	All Other Spinners, Twisters & Winders	0	0	0
61040800	Weaving Occupations	10	-10	20
61040802	Smash Hands	0	0	0
61040804	Weavers	10	-10	20
61040899	All Other Weavers	0	0	0
61041000	Other Textile Occupations	15	-15	30
61041001	Backtenders, Cloth Printing	0	0	0
61041002	Battery Loaders	0	0	0
61041005	Boil-Off Machine Ops., Cloth	0	0	0
61041008	Cloth Feeders &/or Back Tenders	0	-5	5
61041009	Cloth Finishing Range Tndrs., Mdle.	0	0	0
61041010	Cloth Finishing Range Ops., Chiefs	5	0	5
61041011	Cloth Printers	5	0	5
61041021	Rubber Covering Mach. Ops.	0	0	0
61041025	Tenter Frame Operators	0	-5	5
61041027	Turners	0	0	0
61041028	Folders, Hand	5	0	5
62041030	Drier Operators, Textile & Rugs	0	0	0
61041099	All Other Textile Occupations	0	-5	5
61060000	Semiskilled Packing, Inspecting Ops.	180	-10	190
61060200	Checkers, Examiners, Etc. Mfg.	5	-5	10
61060400	Graders & Sorters, Mfg.	-5	-5	0
61060405	Sorters, Leater	0	0	0
60160408	Cloth Graders	-5	-5	0
61060800	Packers, Wrappers, Ex. Meat & Produce	180	0	180
61060802	Production Packagers	165	5	160
61060803	Bundlers	0	0	0
61060804	Baggers	10	-5	15
60160807	Wrapping Mach. Ops.	5	0	5
61080000	Other Operatives, Ex. Transport.	1,210	110	1,100
61080400	Assemblers	350	60	290
61080415	Wirers, Electronic	5	0	5
61080416	Coil Finishers	0	0	0
61080419	Assemblers	160	15	145
61080436	Machine Assemblers	15	-5	20
61080437	Instrument Makers/Assemblers	25	5	20
61080438	Elec. Mech. Equip. Assemblers	20	5	15
61080439	Elec. & Electronic Assemblers	75	25	50
61080440	All Other Assemblers	50	15	35
61081000	Surveyor Helpers	0	0	0
61081200	Clothing Ironers & Pressers	25	0	25
61081201	Pressers, Hand	5	0	5
61081202	Pressers, Machine	5	0	5
61081203	Pressers, Mach. Laundry	15	0	15

AVERAGE ANNUAL NUMBER OF JOB OPENINGS, BY OCCUPATION
DURING 1980-1990 PERIOD FOR RHODE ISLAND

MATRIX CODE	OCCUPATIONAL TITLE	Net Openings	Openings Due to Growth	Openings Due to Separation
Operatives Ex. Transportation (Cont'd.)				
61081400	Cutting Operators, n.e.c	15	0	15
61081403	Cutters, Machine	5	0	5
61081409	Corner Cutters	0	0	0
61081417	Cutters, Portable Mach.	0	0	0
61081424	Diecutters, Clicking Mach. Ops.	5	0	5
61081435	Rubber Goods Cutter-Finisher Ops.	0	0	0
61081442	Slitter-Creaser-Slotter Ops.	0	0	0
61081458	Trimmers, Plastic	0	0	0
61081459	Shear &/or Slitter Ops., Met.	5	0	5
61081499	All Other Cutting Ops., n.e.c.	0	0	0
61081600	Sewers Custom	10	0	10
61082000	Dry Wall Installers, Lathers	5	0	5
61082001	Drywall Applicators	5	0	5
61082003	Tapers	0	0	0
61082200	Dyers	0	-5	5
61082201	Ager Operators	0	0	0
61082202	Beam Dyer Operators, Pkg. Dye Mach. Ops.	0	0	0
61082204	Dye Range Ops./Sp. Dye Beck Tenders	0	-5	5
61082205	Dye Reel Ops., Jiggers, Pad Mach. Ops.	0	0	0
61082209	Skein Yarn Dyers	0	0	0
61082400	Filers, Polishers, Sanders, Buffers	90	15	75
61082401	Filers, Grinders, Buffers, Chippers	90	15	75
61082402	Sandblasters/Shotblasters	0	0	0
61082403	Diepolishers, Wire &/or Tubes	0	0	0
61082410	Sanders Wood	0	0	0
61082499	All Filers, Polishers, Sanders, Buffers	0	0	0
61082600	Garage Workers, Gas Station Attendants	5	-10	15
61082603	Marine Service Station Attendants	0	0	0
61082604	Trailer Rental Attendants	0	0	0
61082605	Fuel Pump Attendants, Lubricators	5	-10	15
61082606	Tire Changers	0	0	0
61082800	Laundry, Dry Cleaning Ops., n.e.c.	50	10	40
61082801	Markers, Classifiers, Assemblers	5	0	5
61082802	Spotters, Dry Cleaning	0	0	0
61082804	Washers, Mach. &/or Starchers	25	10	15
61082806	Dry Cleaning Mach. Ops.	0	0	0
61082809	Laundry Ops., Sm. Establishments	15	0	15
61082816	Folders Laundry	5	0	5
61082899	All Other Laundry, Dry Cleaning Ops. n.e.c.	0	0	0
61083200	Meatcutters, Butchers Processing	5	0	5
61083207	Fish Cleaner Hand/Butchers Fish.	5	0	5
61083299	All Other Meatcutters, Butchers Proc.	0	0	0
61083600	Mine Operatives n.e.c.	0	0	0
61083800	Mixing Operatives	0	0	0
61084000	Oilers	5	0	5

AVERAGE ANNUAL NUMBER OF JOB OPENINGS, BY OCCUPATION
DURING 1980-1990 PERIOD FOR RHODE ISLAND

MATRIX CODE	OCCUPATIONAL TITLE	Net Openings	Openings Due to Growth	Openings Due to Separation
Operatives Ex. Transportation (Cont'd.)				
61084200	Painters, Mfg. Articles	45	10	35
61084201	Painters, Automotive	10	5	5
61084202	Decorators, Hand	10	0	10
61084210	Painters, Production	25	5	20
61084400	Other Photo Process Workers	25	10	15
61084600	Riveters & Fasteners	0	0	0
61084800	Sailors & Deckhands	0	0	0
61085000	Sawyers	5	0	5
61085003	Cutoff Saw Operators, Lumber	0	0	0
61085012	Ripsaw Operators	0	0	0
61085013	Sawyers Metal	5	0	5
61085014	Sawyers Stone	0	0	0
61085099	All Other Sawyers	0	0	0
61085200	Sewers & Stitchers	70	-25	95
61085205	Sewing Mach. Ops., Reg. Eqmt. Nongar.	20	-10	30
61085214	Menders Cloth	0	-10	10
61085215	Sewing Mach. Ops., Spec. Eqmt. Nongar	5	0	5
61085216	Sewing Mach. Ops., Spec. Eqmt. Gar.	5	0	5
61085220	Sewing Mach. Ops., Reg. Eqmt. Garment	40	-5	45
61085400	Shoemaking Machine Ops.	0	0	0
61085600	Furnace Tenders, Stokers, Ex. Metal	15	-5	20
61085602	Stationary Boilers Firers	15	-5	20
61085699	All Furnace Tenders, Stokers Ex. Met.	0	0	0
61085800	Winding Operatives n.e.c.	30	10	20
61085810	Coil Winders	30	10	20
61085899	All Other Winding Operatives	0	0	0
61086000	Misc. Mach. Ops., Meat & Dairy	5	0	5
61086200	Misc. Mach. Ops., All Other Food	15	10	5
61086207	Washer &/or Separators Food	0	0	0
61086229	Spinners Confection	0	0	0
61086258	Doughnut Maker/Doughnut Mach. Op.	15	10	5
61086265	Dyetank Tender Etc.	0	0	0
61086292	Oven Operators	0	0	0
61086299	All Other Misc. Mach. Ops., All Other Fd.	0	0	0
61086600	Misc Mach. Ops., Textile Mills	0	0	0
61086601	Laminating Mach. Ops., Etc.	0	0	0
61086604	Calender Ops., Cloth Pressing	0	0	0
61086608	Coating Mach. Ops.	0	0	0
61086699	All Other Misc. Mach. Ops., Textile Mills	5	0	5
61086800	Misc. Mach. Ops., Lumber Products	5	0	5
61086818	Woodworking Mach. Ops.	0	0	0
61086899	All Other Misc. Mach. Ops., Lumber Prod.	5	0	5
61087000	Misc. Mach. Ops., Paper Allied	0	0	0
61087035	Scorers	0	0	0
61087047	Four-Corner-Stayer Mach. Ops.			

AVERAGE ANNUAL NUMBER OF JOB OPENINGS, BY OCCUPATION
DURING 1980-1990 PERIOD FOR RHODE ISLAND

MATRIX CODE	OCCUPATIONAL TITLE	Net Openings	Openings Due to Growth	Openings Due to Separation
Operatives Ex. Transportation (Cont'd.)				
61087051	Bag Machine Operators	0	0	0
61087054	Box Makers, Paperboard	0	0	0
61087056	Cutting & Creasing Press Ops.	0	0	0
61087070	Slotter Operators	0	0	0
61087099	All Other Misc. Mach. Ops., Paper Allied	5	0	5
61087200	Misc. Mach. Ops., Chemical Allied	10	0	10
61087288	Chemical Operators Helpers	0	-5	5
61087290	Chemical Operators A	10	5	5
61087291	Chemical Operators B	0	0	0
61087299	All Other Misc. Mach. Ops., Chem., Allied	0	0	0
61087600	Misc. Mach. Ops., Rubber Plastic	65	15	50
61087603	Rubber Mill Operators	0	0	0
61087608	Heat Sealers	0	0	0
61087618	Press Tenders, Rubber Goods	0	0	0
61087623	Extruder Ops., Rubber or Plastics	5	0	5
61087624	Extruder Ops. Helpers, Rub. or Plas.	0	0	0
61087629	Dipping Machine Ops.	0	0	0
61087631	Blowmolding Mach. Ops.	0	0	0
61087633	Calander Ops., Rubber or Plastic	0	0	0
61087635	Rotation Molding Mach. Ops.	0	0	0
61087637	Vacuum Plastic Forming Mach. Ops.	0	0	0
61087645	Compr. &/or Inject. Mold Mach. Ops., Plas.	60	15	45
61087699	All Other Misc. Mach. Ops., Rubber, Plas.	0	0	0
61087800	Misc. Mach. Ops., Leather, Leather Goods.	0	0	0
61087806	Molders Fiberglass Luggage	0	0	0
61087807	Handbag Framers	0	0	0
61088000	Misc. Mach. Ops., Stone, Clay, Glass	0	-5	5
61088004	Sliver Forming & Winding Ops., Etc.	0	-5	5
61088099	All Other Misc. Mach. Ops., Stone, Clay, Glass	0	0	0
61088200	Misc. Mach. Ops., Primary Metals	25	-10	35
61088229	Coilers, Winders &/or Spoolers	0	-5	5
61088260	Stranding Mach. Ops.	5	0	5
61088267	Draw-Bench Operators, Tube Drawers	5	0	5
61088280	Insulating Extruding Mach. Ops.	5	-5	10
61088287	Die-Casting Mach. Ops., Setters	5	0	5
61088289	Coil Tapers, Hand or Machine	0	0	0
61088291	Multi-Slide Mach. Ops.	0	0	0
61088299	All Other Misc. Mach. Ops., Prim. Metals	5	0	5
61088400	Misc. Mach. Ops., Mfg., n.e.c.	50	0	50
61088401	Screen/Stencil Printers/Setters	10	0	10
61088403	Coremakers, Hand, Bench, Floor	0	0	0
61088406	Braiding Mach. Ops.	15	-5	20
61088407	Grinder Ops.	0	0	0
61088414	Tumbler Ops., Plastic	0	0	0
61088415	Laminators, Preforms	10	5	5

AVERAGE ANNUAL NUMBER OF JOB OPENINGS, BY OCCUPATION
DURING 1980-1990 PERIOD FOR RHODE ISLAND

MATRIX CODE	OCCUPATIONAL TITLE	Net Openings	Openings Due to Growth	Openings Due to Separation
Operatives Ex. Transportation (Cont'd.)				
61088416	Press Ops., Plastic	5	0	5
61088419	Rubber Mold Makers	5	0	5
61088428	Encapsulators	0	0	0
61088437	Insul. Wrapping/Braiding Mach. Ops.	5	0	5
61088499	All Other Misc. Mach. Ops., Mfg, n.e.c.	0	0	0
61088600	Misc. Mach. Ops., Nonmfg.	5	0	5
61088614	Tire Fabricators Repairers	5	0	5
61088699	All Other Misc. Mach. Ops., Nonmfg.	0	0	0
61088800	Operatives, n.e.c. Durable Goods	210	10	200
61088803	Bench Hand, Jewelry	135	10	125
61088805	Casters	10	0	10
61088806	Chain Makers, Hand	5	0	5
61088817	Fabricators, Plastic	0	0	0
61088816	Finishers, Hand	5	0	5
61088834	Platers Helpers	35	0	35
61088849	Wax Pattern Workers	15	0	15
61088850	Wire Drawers	5	0	5
61088899	All Other Operatives, n.e.c., Dur. Goods	0	0	0
61089000	Operatives, n.e.c., Non. Dur. Goods	55	15	40
61089032	Luggage Makers	40	10	30
61089071	Thread Trimmers	0	0	0
61089078	Casters, Plastic	0	0	0
61089095	Press Assistants & Feeders	5	0	5
61089097	Mailers	10	5	5
61089099	All Other Ops., n.e.c., Non. Dur. Goods	0	0	0
61089200	Operatives, n.e.c. Nonmfg.	10	5	5
61089204	Exterminators	10	5	5
61089210	Termite Treaters	0	0	0
62000000	Transportation Equip. Operatives	410	45	365
62000200	Motor Boat Operators	0	0	0
62000400	Bus Drivers	105	0	105
62000401	Bus Drivers	40	0	40
62000402	Bus Drivers, School	65	0	65
62000800	Delivery & Route Workers	80	5	75
62000801	Delivery & Route Wkrs.	80	5	75
62000802	Furniture Assemblers & Installers	0	0	0
62001000	Fork Lift, Tow Motor Ops.	40	5	35
62001400	Parking Lot Attendants	5	0	5
62001600	Railroad Brake Operators	5	0	5
62001800	Tower Operators	0	0	0
62002000	Taxicab Drivers, Chauffeurs	25	0	25
62002001	Ambulance Drivers/Amb. Attendants	5	0	5
62002004	Taxi Drivers	10	0	10

AVERAGE ANNUAL NUMBER OF JOB OPENINGS, BY OCCUPATION
DURING 1980-1990 PERIOD FOR RHODE ISLAND

MATRIX CODE	OCCUPATIONAL TITLE	Net Openings	Openings Due to Growth	Openings Due to Separation
Transportation Equip. Operatives (Cont'd.)				
62002007	Chauffeurs	10	0	0
62002200	Truck Driving Occupations	150	35	115
63000000	All Other Ops. & Semiskilled Workers	275	0	275
70000000	Service Workers	4,430	995	3,435
70020000	Cleaning Service Workers	900	100	800
70040000	Food Service Workers	1,560	365	1,195
70040200	Bakers, Bread &/or Pastry	10	0	10
70040400	Bartenders	120	15	105
70040600	Dining Room Attendants, Bar Helpers, Etc.	25	15	10
70040800	Cooks, Ex. Private	235	50	185
70040802	Cooks, Short Order, Spec. Fast Food	70	10	60
70040803	Cooks, Restaurant	80	20	60
70040804	Cooks, Institutional	85	20	65
70041400	Butchers &/or Meat Cutters, Retail	20	0	20
70041600	Waiters &/or Waitresses	360	80	280
70041601	Host/Hostess Rest., Lnge, Cof. Shop	25	10	15
70041602	Waiters &/or Waitresses	335	70	265
70041800	Food Workers, n.e.c., Ex. Private	790	205	585
70041802	Kitchen Helpers	365	90	275
70041804	Food Prep. & Serv. Wkrs., Fast Fd. Rest.	175	65	110
70041805	Pantry, Sandwich &/or Coffee Makers	15	5	10
70041899	All Other Food Service Workers	235	45	190
70060000	Health Service Workers	745	340	405
70060400	Health Aides, Ex. Nursing	0	0	0
70061000	Nursing Assistant Occupation	745	340	405
70061010	Nurses Aide/Orderlies	645	310	335
70061011	Psychiatric Aides	80	20	60
70061013	Medical Assistants	20	10	10
70080000	Personal Service Workers	445	75	370
70080800	Attendants, Recreation & Amusement	5	0	5
70080401	Recreation Facility Attendants	0	0	0
70080402	Game Ops., Ride Ops., Concess. Wkrs.	5	0	5
70080403	Pinchasers	0	0	0
70080407	Lifeguards	0	0	0
70080600	Attendants, Personal Service, n.e.c.	130	40	90
70080608	Guides, Travel	10	0	10
70080611	Instructors, Reducing	25	5	20
70080616	Housekeepers, Hotel & Motel	80	35	45
70080618	Checkroom & Locker Room Attendants	5	0	5
70080619	Guides, Sightseeing or Establishment	5	0	5
70080699	All Other Attendants, Personal Svc. n.e.c.	5	0	5
70080800	Baggage Porters & Bellhops	0	0	0
70081000	Barbers	50	0	50
70081600	Childcare Workers, Ex. Private	155	25	130
70081601	Child Care Attendants	0	0	0

AVERAGE ANNUAL NUMBER OF JOB OPENINGS, BY OCCUPATION
DURING 1980-1990 PERIOD FOR RHODE ISLAND

MATRIX CODE	OCCUPATIONAL TITLE	Net Openings	Openings Due to Growth	Openings Due to Separation
Service Workers (Cont'd.)				
70081602	Child Care Workers	155	25	130
70082000	Hairdressers, Cosmetologists	60	0	60
70082001	Cosmetologist/Wm's Hair Stylists	60	0	60
70082006	Shampooers	0	0	0
70082600	School Monitors	0	0	0
70082800	Ushers, Lobby Attns., Ticket Takers	20	0	20
70083000	Social Service Aides	25	10	15
70100000	Protective Service Workers	565	75	490
70100200	Crossing Guards, Bridge Tenders	15	0	15
70100202	Crossing or Bridge Tenders	0	0	0
70100203	School Crossing Guards	15	0	15
70100400	Firefighting Occupations	30	0	30
70100401	Fire Fighters	25	0	25
70100402	Fire Officers &/or Inspectors	5	0	5
70100600	Guards	475	75	400
70100601	Guards & Doorkeepers	405	65	340
70100602	Checkers Fitting Room	5	0	5
70100606	Fish & Game Wardens	0	0	0
70100607	Correction Officers &/or Jailers	65	10	55
70100800	U.S. Marshalls	0	0	0
70101000	Police & Detectives	40	0	40
70101002	Store Detectives	0	0	0
70101004	Police Officers	10	0	10
70101005	Police Detectives	5	0	5
70101006	Police Patrolmen/Women	25	0	25
70101099	All Other Police & Detectives	0	0	0
70101200	Sheriffs & Baliffs	5	0	5
70120000	Private Household Workers	55	5	50
70120200	Childcare Workers, Pvt. Household	5	0	5
70120400	Cooks, Private Households	5	0	5
70120600	Housekeepers, Pvt. Households	45	5	40
70200000	Other Service Workers	160	35	125
70200001	Supervisors, Nonworking, Svc.	40	10	30
70200099	All Other Service	120	25	95
80000000	Laborers, Ex. Farm	1,065	95	970
80000200	Animal Caretakers	10	0	10
80000600	Construction Laborers, Ex. Carpenters Helper	40	20	20
80000601	Air Hammer Operators	0	0	0
80000609	Pipelayers	15	10	5
80000610	Reinforcing-Iron Workers	0	0	0
80000628	Highway Maintenance Workers	15	0	15
80000629	Asphalt Rakers	10	10	0
80001000	Freight, Material Handlers	10	0	10
80001020	Conveyor Operators or Tenders	5	0	5
80001023	Work Distributor	5	0	5

AVERAGE ANNUAL NUMBER OF JOB OPENINGS, BY OCCUPATION
DURING 1980-1990 PERIOD FOR RHODE ISLAND

MATRIX CODE	OCCUPATIONAL TITLE	Net Openings	Openings Due to Growth	Openings Due to Separatio
Laborers Ex. Farm (Cont'd.)				
80001099	All Other Freight Material Handlers	0	0	0
80001200	Garbage Collectors	10	5	5
80001400	Gardeners & Groundskeepers	105	5	100
80002000	Stock Handlers	135	15	120
80002001	Order Fillers	65	10	55
80002003	Stock Clerks, Sales Floor	70	5	65
80002400	Vechicle Washers, Equipment Cleaners	10	0	10
80002800	Other Laborers	745	50	695
80002813	Shake Out Worker, Foundry	0	0	0
80002819	Furnace Op. Helpers/Heater Helper	0	0	0
80002821	Scrap Sorters	0	0	0
80002822	Riggers	10	5	5
80002823	Helpers Trades	55	10	45
80002831	Forest Conservation Workers	0	0	0
80002899	All Other Laborers & Unskilled Wkrs.	680	35	645
90000000	Farmers & Farm Workers	105	0	105
90020000	Farmers & Farm Managers	55	0	55
90020200	Farmers (Owners & Tenents)	50	0	50
90020400	Farm Managers	5	0	5
90040000	Farm Laborers, Farm Supervisors	50	0	50
90040200	Farm Supervisors	5	0	5
90040400	Farm Laborers	45	0	45

Due to rounding, changes of less than $\pm$ 5 openings per year appear as a zero (0).

D. Potential Occupational Supply

The following table is a list of occupations in which there were 50 or more active applicants on file with the Rhode Island Job Service at the end of February 1988. An active applicant is a person who is available for referral to a job.

Despite the long-term declines in unemployment in the State, there are a variety of occupations in which there are a substantial number of available applicants. An occupation which has over 50 applicants shows a definite labor surplus. Although not all these applicants are unemployed, a substantial proportion of Job Service applicants are not working.

Some of the occupations on this list are not relevant to the types of training conducted under JTPA and similar programs. However, program administrators should take note of those occupations in which there is a significant labor surplus when planning job training curricula.

Occupations With 50 or More Active Applicants

at the End of February 1988

D.O.T. Code	Occupational Title	Active Applicants
169.167-034	Office Manager	74
185.167-046	Manager, Retail Store	134
187.167-106	Manager, Food Service	58
201.362-030	Secretary	136
203.362-010	Clerk Typist	63
209.562-010	General Office Clerk	379
210.382-014	Bookkeeper	77
211.462-014	Cashier	78
211.462-014	Cashier-Checker	146
219.362-010	Administrative Clerk	98
222.387-050	Shipping & Receiving Clerk	95
237.367-038	Receptionist	111
279.357-054	General Merchandise, Salesperson	53
301.677-010	Child Monitor	52
311.477-014	Waiter/Waitress, Counter	56
311.477-026	Waiter/Waitress, Formal	74
311.477-030	Waiter/Waitress, Informal	192
312.474-010	Bartender	68
313.361-014	Cook	88
318.687-010	Kitchen Helper	91
355.674-014	Nurse Aide	224
381.687-014	Commercial Cleaner	102
408.687-014	Landscape Laborer	91
616.360-018	Machine Operator	83
620.261-010	Automobile Mechanic	65
690.685-014	Assembly Press Operator	56
700.687-058	Polisher	64
739.687-030	Small Products Assembler	63
840.381-010	Painter	100
860.381-022	Carpenter	116
869.664-014	Construction Worker I	173
869.687-026	Construction Worker II	135
904.383-010	Tractor-Trailer Truck Driver	51
905.663-014	Heavy Truck Driver	138
906.683-022	Light Truck Driver	63
920.587-018	Hand Packager	384
922.687-058	Stores Laborer	145
929.687-030	Material Handler	237

Section 4: Recent Trends in Unemployment

The annual average number of unemployed in Rhode Island in 1987 was 20,000, a decrease of 1,000 or 4.8 percent from the 1986 average of 21,000. This decline in the number of unemployed caused the State's jobless rate to drop from 4.1 percent in 1986 to 3.8 percent in 1987.

Unemployment was on the decline for much of the year. Expected seasonal increases occurred in July and the latter two months of the year. The lowest jobless level (16,000) was seen in October, when the rate of unemployment was 3.0 percent.

The State's economy is expected to remain strong in Program Year 1988, causing the jobless level and rate to remain relatively low. Average unemployment in Rhode Island is expected to hover around 20,000 in Program Year 1988, leading to an average State unemployment rate of approximately 3.8 percent, essentially unchanged from calendar year 1987.

RHODE ISLAND LABOR FORCE AND UNEMPLOYMENT

1987

Month	Unemployment	Labor Force	Unadjusted Rate	
			Unadjusted	Seasonally Adjusted
January	22,200	508,700	4.4	3.8
February	22,200	506,200	4.4	3.9
March	24,000	511,500	4.7	4.2
April	21,400	520,400	4.1	4.0
May	20,000	522,800	3.8	4.0
June	20,200	525,300	3.8	4.0
July	22,500	521,700	4.3	3.8
August	19,600	522,500	3.8	3.9
September	17,200	523,100	3.3	3.8
October	16,000	526,300	3.0	3.7
November	16,300	526,100	3.1	3.5
December	18,400	525,300	3.5	3.5
Annual Average	20,000	520,000	3.8	-

SOURCE: R.I. Department of Employment Security

RHODE ISLAND LABOR FORCE AND UNEMPLOYMENT

1986

Month	Unemployment	Labor Force	Unemployment Rate	
			Unadjusted	Seasonally Adjusted
January	25,000	496,600	5.0	4.4
February	25,000	497,600	5.0	4.4
March	23,400	499,000	4.7	4.2
April	21,000	504,300	4.2	4.0
May	19,600	509,000	3.9	4.1
June	19,900	510,400	3.9	4.0
July	23,500	509,200	4.6	4.1
August	19,700	510,900	3.9	4.0
September	18,300	512,900	3.6	4.1
October	17,400	518,500	3.4	4.0
November	18,500	520,000	3.6	4.1
December	20,800	519,700	4.0	4.0
Annual Average	21,000	509,000	4.1	-

SOURCE: R.I. Department of Employment Security

Section 5: Characteristics of the Insured Unemployed

The average number of insured unemployed (persons collecting regular Unemployment Insurance benefits) fell from 12,520 in 1986 to 11,234 in 1987. This decrease of 1,286 or 10.3 percent included 353 women and 933 men.

Among industry groupings, manufacturing showed the largest annual decline in insured unemployment, followed by the trade segment, contract construction, and services. Conversely, "all other" industries, finance, insurance and real estate, and transportation and public utilities registered increases over the previous year in the number of insured unemployed from these segments.

Within occupational skill categories, the most substantial decrease in the insured unemployed was recorded in clerical and sales, followed closely by structural work. Service, professional, technical and managerial occupations, bench work and miscellaneous occupations also had notable decreases The only notable increase in insured unemployment was seen in the machine trades category. Annual fluctuations in insured unemployed in the remaining occupational divisions were less significant.

CHARACTERISTICS OF THE INSURED

UNEMPLOYED

ANNUAL AVERAGE - 1987

	Number	Percent
Sex and Age		
Total	11,234	100.0
Men	5,914	52.6
Under 45	4,083	69.0
45 and over	1,831	31.0
Women	5,320	47.4
Under 45	3,129	58.8
45 and over	2,191	41.2
Industry Attachment		
Total All Industries	11,234	100.0
Contract Construction	1,328	11.8
Manufacturing	4,686	41.7
Transportation & Public Utilities	626	5.6
Trade	1,620	14.4
Finance-Insurance-Real Estate	335	3.0
Service	1,742	15.5
All Other	897	8.0
Occupational Skills		
Total All Occupations	11,234	100.0
Prof., Tech. and Mgr.	1,368	12.8
Clerical and Sales	2,055	18.3
Service	1,121	9.9
Forestry, Fishery, and Rel.	272	2.3
Processing	369	3.2
Machine Trades	1,277	11.3
Bench Work	1,613	14.3
Structural Work	1,581	14.0
Miscellaneous	1,304	11.5
Not Available	274	2.4

CHARACTERISTICS OF THE INSURED

UNEMPLOYED

ANNUAL AVERAGE - 1986

	Number	Percent
Sex and Age		
Total	12,520	100.0
Men	6,847	54.7
Under 45	5,019	73.3
45 and over	1,828	26.7
Women	5,673	45.3
Under 45	3,773	66.5
45 and over	1,900	33.5
Industry Attachment		
Total All Industries	12,520	100.0
Contract Construction	1,500	12.0
Manufacturing	5,601	44.7
Transportation & Public Utilities	600	4.8
Trade	2,098	16.8
Finance-Insurance-Real Estate	305	2.4
Service	1,6805	14.4
All Other	611	4.9
Occupational Skills		
Total All Occupations	12,520	100.0
Prof., Tech. and Mgr.	1,458	11.6
Clerical and Sales	2,707	21.6
Service	1,314	10.5
Forestry, Fishery, and Rel.	311	2.5
Processing	384	3.1
Machine Trades	1,221	9.7
Bench Work	1,697	13.6
Structural Work	1,974	15.8
Miscellaneous	1,385	11.1
Not Available	69	0.5

- APPENDIX -

SOURCES OF DATA

Population totals and characteristics for 1970 and 1980 were obtained from the 1970 and 1980 Census of Population and Housing.

Operating statistics, establishment employment data, and unemployment estimates prepared by the Rhode Island Department of Employment Security were the major sources of current data. Unemployment estimates are prepared in accordance with the methodology required by the Bureau of Labor Statistics, U.S. Department of Labor.

Data on job openings was obtained from Job Bank summary tables.

Technical Notes and Explanatory Material

The employment and unemployment information in this report was compiled by the Labor Market Information Section of the Rhode Island Department of Employment Security, affiliated with the Employment and Training Administration and the Bureau of Labor Statistics, U.S. Department of Labor. Data in the report is based in part on current survey data collected from a sample of local employers, as well as information developed in the course of the normal operations of the Job Service and Unemployment Insurance Programs operated by the Rhode Island Department of Employment Security.

An explanation of some of the technical terminology for various items discussed in the report is presented on the following pages.

Employment

Nonagricultural wage and salary establishment employment refers only to employees on establishment payrolls during the sample week in each month (week including the 12th), and excludes self-employed, unpaid family workers, domestic workers, agricultural workers, and workers involved in labor-management disputes. Nonagricultural wage and salary employment figures relate to place of work of the workers and not to their place of residence. To the extent that multiple job holding exists during the payroll period, the establishment payroll records may count a person more than once. In addition, the payroll data includes incommuters who live outside the state, but no outcommuters who work outside the state.

Unemployment

Unemployment data included in this report for the State of Rhode Island are conceptually comparable with those released by the U.S. Department of Labor each month for the country as a whole. However, they are developed on the basis of a different procedure.

The national data are based on a sample of households throughout the country. The state information starts with a count of persons eligible for unemployment insurance benefits. To this total are added appropriate estimates for unemployed persons who have exhausted their unemployment insurance benefits and are still unemployed; persons who have delayed filing for benefits but who were not working; unemployed persons who applied for benefits but were not qualified to receive them; workers separated from industries not covered by unemployment insurance; and jobless persons newly entering or reentering the labor force.

The state estimates thus include all workers not at work but actively seeking work in the sample week in each month, or who had made specific efforts to find a job during the past four weeks.

The unemployment data also include those who did not work and were waiting to be called back to a job, or were waiting to

report to a new job to start within the following 30 days.

Unemployed workers are counted by their place of residence. The unemployment rate represents the number of unemployed as a percent of civilian labor force.

Civilian Labor Force

Civilian labor force represents the sum of all employed persons (exclusive of the Armed Forces), the unemployed, and persons involved in labor-management disputes. Persons directly involved in labor-management disputes are not considered either employed or unemployed. The employment component of the civilian labor force has been adjusted to reflect place of residence.

Both total employment and total unemployment have been adjusted or "benchmarked" to similar data for Rhode Island obtained from the Current Population Survey (CPS), which is the source of national employment and unemployment data. The CPS is a monthly survey of households conducted in each state. This benchmarking procedure is required by the Bureau of Labor Statistics.

Job Openings and Job Applicants

The information on job openings and job applicants found in this report is based upon data on job openings listed and applicants registered for work with the Rhode Island Job Service. While such openings are in general reasonably representative of the kinds of occupations in demand in the state, Job Service unfilled openings (the total of employer orders which are on file and which have not been filled as of a particular day) may understate needs in some occupations for which hiring is normally handled through other channels such as union hiring halls. Openings unfilled for one month or more are generally considered hard-to-fill.

Job applicants registered with the Job Service are reasonably representative of the available worker supply in most occupational categories. These job seekers include unemployed persons, new and re-entrants to the labor force, and currently employed workers seeking a job change.